

# Allison L. Fisher, M.A.Sc.

## Senior Air Quality Specialist, Shell Canada

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### Professional Highlights:

- 16 years of experience as an air quality subject matter expert and team lead (6 years at Shell, 10 years in environmental consulting).
- Specialist in air quality assessment, dispersion modelling, ambient air monitoring program design, data analysis and interpretation, air emissions estimation, impacts analysis/risk assessment, climate/meteorology, emissions reporting, and regulatory air permitting.
- Specialized in air policy development and
- Extensive experience conducting emerging policy and regulatory advocacy work, with government, non-government organizations, and public stakeholders.
- Demonstrated successes influencing air quality regulation development and implementation with provincial and federal governments.
- Experienced in practical application of LEAN for streamlining work and identifying innovative opportunities for continuous improvement.

### Strengths:

- Exceptional project management skills, including multi-disciplinary, cross-business/sector projects up to \$5M.
- Team-oriented individual, with strong written and verbal communication skills.
- Customer-focused mindset for delivery.
- Critical thinking and analytical skills, ability to identify future potential risks and mitigation.
- Experienced in the management of teams of up to 20 professional/technical staff.
- Capable of multi-tasking and working productively in high stress environments.
- Adaptable to changing client needs, thriving in dynamic work environments.
- Exceptional technical writing and organizational skills.

### Education:

<b>Masters of Applied Science in Environmental Engineering</b> Memorial University of Newfoundland, St. John's, NL	2001
<b>Bachelor of Science in Environmental Science (Honours)</b> Sir Wilfred Grenfell College (Memorial University), Corner Brook, NL	2000

### Career Summary:

<b>Team Lead, Air, Noise, &amp; Environmental Reporting</b> Upstream Unconventionals, Shell Canada, Calgary, AB	2013 - Present
<ul style="list-style-type: none"> <li>• Subject matter expert for air quality and team lead for air, noise, and environmental performance reporting for the Unconventionals Canada business.</li> <li>• Providing support to the business on air issues, such as regulatory/permitting requirements, odour complaints, health impact evaluations, flaring, upset event root cause analysis, emissions concerns, emissions reporting, assessment requirements, monitoring programs, equipment troubleshooting, etc.</li> <li>• Conducting air quality impact assessments for a broad range of air contaminants, including NO<sub>x</sub>/NO<sub>2</sub>, SO<sub>2</sub>, H<sub>2</sub>S, PM, CO, VOCs, BTEX, etc.</li> <li>• Performing technical subject matter expert reviews of complex, technical reports.</li> <li>• Chairing several large multi-stakeholder groups, including the Canadian Association of Petroleum Producers (CAPP) National Air Issues Committee and</li> </ul>	

- Peace River Industry Air Quality Working Group (until asset sale June 2017).
- Representing both Shell and CAPP on government engagement and technical committees related to emerging air legislation. Providing technical expertise to government and multi-stakeholder working groups to guide air regulatory change toward positive environmental outcomes that are achievable and fit-for-purpose.
  - Representing Shell on several Provincial Airsheds and Provincial/Federal Government technical air quality working groups.
  - Providing strategic advice and advocacy on emerging air issues and risks to business stakeholders. Developing strategies for engagement of both internal and external stakeholders to enable effective advocacy, particularly around the new Canadian Ambient Air Quality Standards for PM<sub>2.5</sub>, O<sub>3</sub>, SO<sub>2</sub>, and NO<sub>2</sub>.
  - Managing cost leadership initiative for the Environment/Regulatory Canada team, tracking and communicating performance towards cost savings/avoidance goals and cost reduction opportunities. Fulfilling the role of LEAN/Continuous Improvement Team Lead and coach for Environment/Regulatory Canada team.
  - Completed Value Stream Mapping for internal RDS environmental performance reporting to streamline work, identify innovative ways to optimize performance, and reduce cost. Reorganized team to improve efficiency and leverage VSM improvements.
  - Represented Canada on Shell's international Air Global Expertise Team (GET) (2011 to 2016). Led 2020 Air GET Vision development workshop in Fall 2016 to support definition of a vision for the group. Supported Air GET functional plan and deliverables. Currently participating on the global NO<sub>2</sub> Subteam, supporting consistency and awareness of Shell's global strategy for managing risks associated with emerging NO<sub>x</sub>/NO<sub>2</sub> policy.
  - Conducted Shell Control Framework (CF) gap assessments and developed closure plans for all air manuals. Developed FAQ's for CF manuals to support business interpretation and implementation.

**Western Region Air Specialist**

2011 - 2013

Upstream Americas, Shell Canada, Calgary, AB

- Subject matter expert for air quality and noise.
- Provided technical advice to the business to ensure compliance with external regulatory and internal Shell requirements for air quality.
- Participated as oil and gas sector representative on federal Air Quality Management System (AQMS) Multi-sectoral Air Pollutants Regulation (MSAPR) Development Committee for reciprocating engines.
- Managed technical air research projects through the Petroleum Technology Alliance of Canada (PTAC), such as black carbon and flaring studies.
- Coordinated contractors, conducted senior technical reviews, and provided quality assurance/quality control of air quality assessments for regulatory applications.
- Represented Shell on various industry and multi-stakeholder working groups (i.e., Shell Air Global Expertise Team, CAPP National Air Issues Committee, CAPP Air Pollutant Working Group, CRAZ, PTAC Air Research Committee, PR-AQWG, PR-AMSC).
- Designed several new airshed monitoring programs (PRAMP, FCOG).
- Identified and implemented risk management for air non-technical risks.
- Conducted government advocacy on emerging air issues, as well as compliance planning to ensure business readiness for new air regulations.

**Group Leader, Air Quality and Noise Management**

2009 - 2011

Stantec Consulting Ltd., Calgary, AB

- Management of over 20 professional/technical air quality and noise specialists across Western Canada.
- Managed resource allocation, project/proposal backlog tracking, career development and training, skills matrix, performance reviews, team communication, strategic planning, hiring/recruitment, and administrative duties.
- Responsible for senior technical reviews and quality assurance/quality control of technical air quality and noise assessments for various industrial sectors (oil and gas, pipeline, chemical manufacturing, mining, etc.).
- Preparation and implementation of project work plans, budgets, and schedules.
- Leader for client management, project management program, and cross-sector business development.
- Permitting under AEP EPEA, Directive 56, Sturgeon County, NAV Canada, and Transport Canada Aeronautical Clearance requirements.

**Team Lead, Air Quality and Noise Management**

2007 - 2009

Jacques Whitford (AXYS) Ltd., Calgary, AB

- Leadership of 10 professional/technical staff.
- Responsible for technical air quality and noise assessment project work, planning, and quality assurance/quality control.
- Responsible for project management and client liaison.

**Intermediate Air Quality Scientist, Project Manager**

2004 - 2007

Jacques Whitford Limited, Calgary, AB

- Conducted detailed atmospheric plume dispersion modelling (AERMOD, CALPUFF, CALMET, ISC3, RTDM, etc.) and risk assessment for the upstream oil and gas sector, power, transportation, pulp and paper industry, agricultural developers, and manufacturing industries.
- Participated in business development marketing campaigns and strategic planning.
- Responsible for project management and client liaison.

**Air Quality Scientist, Project Manager**

2001 - 2004

Jacques Whitford Limited, Calgary, AB

- Conducted atmospheric plume dispersion models to assess ground-level concentrations of various pollutants from anthropogenic and natural sources.
- Mapped modelling results and interpreted output based on local/regional meteorology, surface terrain, and source characteristics.
- Performed quantitative risk assessment modelling to evaluate distances for emergency planning zones from sour gas wells, pipelines, manufacturing plants, and storage facilities.

**Graduate Research and Development Project, Air Quality Impact Modelling**

2000 - 2001

Memorial University of Newfoundland, St. John's, NL

- Lead a team of graduate students in an investigation involving a comparison of dispersion model effectiveness at the North Atlantic Refinery Complex, Come-By-Chance, NL.
- Used meteorological, geographic terrain, and source emission data in various air dispersion models to assess model efficiency in a coastal zone.
- Evaluated effectiveness of incorporated control technologies in relation to future pollutant reduction, and compiled thesis report and presentation.

### Professional Development:

<b>Continuous Improvement Managers Workshop</b> Shell CI Team, Calgary, AB	2017
<b>Shell Leader of Teams</b> Shell, Calgary, AB	2015
<b>Problem Solving and Decision Making</b> Shell Blended Learning, Calgary, AB	2014
<b>Dealing with Difficult People</b> Fred Pryor & Career Track, Calgary, AB	2014
<b>Public Risk Communication (with Dr. Vincent Covello)</b> Center for Risk Management, Calgary, AB	2012
<b>CALPUFF/CALMET Atmospheric Dispersion Modelling</b> EarthTech, Edmonton, AB	2004

### Professional Memberships/Organizations:

<b>Canadian Association of Petroleum Producers (CAPP) National Air Issues Committee</b> Chair	2015 - 2017
<b>Clean Air Strategic Alliance Ambient Air Quality Objective Science Advisory Committee</b> Shell Representative, CAPP Shadow Committee Focal	2017
<b>Environment Canada National Pollutant Release Inventory Reporting Program Development Committee</b> Shell Representative at CAPP Working Group	2016 - 2017
<b>Alberta Environment and Parks Industrial Air Emissions Management Program Technical Working Group</b> Representative for Upstream Oil and Gas Sector	2017
<b>Alberta Environment and Parks Red Deer PM<sub>2.5</sub> Technical Advisory Committee</b> Representative for Shell Canada	2015 - 2017
<b>Calgary Region Airshed Zone (CRAZ) Board of Directors</b> Industry Representative	2014 - 2016
<b>Peace River Area Monitoring Program (PRAMP) Board of Directors</b> Representative for Shell Canada	2011 - 2017
<b>Peace River Multi-Industry Air Quality Working Group (AQWG)</b> Chair	2011 - 2016
<b>Petroleum Technology Alliance of Canada (PTAC) Air Research Committee</b> Project Champion for Air Quality Technical Projects	2011 – 2013

**Canadian Prairie and Northern Section (CPANS) Board of Directors** 2003 - 2011  
Treasurer, AGM & Conference Planner, Promotions & Marketing Director

**Air and Waste Management Association (A&WMA)** 2003 - 2017  
General Member

### Publications, Conferences, & Workshops:

- Fisher A.** 2017. *NOx/NO2 Risks & Regulations Seminar*. Shell Canada. Calgary, AB.
- Fisher A.**, and G. Mueller. 2016. *Shell Air Global Expertise Team 2020 Vision Workshop*. Shell Canada. Calgary, AB; Texas, Netherlands, Belgium, Africa (via virtual telepresence).
- Fisher A.**, and L. Hoven. 2012, 2013, 2014, 2015. *Air Quality 101 Lunch and Learn Series*. Shell Canada. Calgary, AB.
- Fisher A.** 2012. *Directive 60 Flaring and Venting Compliance Roadshow*. Shell Canada Limited. Calgary, AB.
- Fisher A.** 2012. *Air Quality 101 Workshop*. Shell Canada Limited. Calgary, Alberta. September, 2012.
- Fisher A.** and L. Hoven. 2011. *Air Quality Dispersion Modelling Lunch and Learn*. Enbridge Pipelines Inc. Edmonton, Alberta. June, 2011.
- Fisher A.**, B. Kucewicz, and M. Schroeder. 2010. *Fugitive Emissions Management Framework for a Large Oil Product Storage Terminal*. Air & Waste Management Association Annual Conference and Exhibition (ACE) 2010. Calgary, Alberta. June, 2010.
- Fisher, A.** 2004. *Seminar on Design and Implementation of an Air Quality Monitoring Network in the Cold Lake Area of Alberta*. Jacques Whitford Limited. Calgary, Alberta. October, 2004.
- Fudge, S., **A. Fisher**, R. Person, and M. Schroeder. 2004. *Canadian Approaches to Emissions Management for Sour Gas Production*. 11<sup>th</sup> Annual Abu Dhabi International Petroleum Exhibition and Conference (ADIPEC). Abu Dhabi, United Arab Emirates. October, 2004.
- Fisher, A.**, and B. Kucewicz. 2004. *Implementation of a Regional Air Quality Monitoring Network in an Alberta Oil Sands Region*. Petroleum Technology Alliance Canada Air Issues Forum. Calgary, AB. September, 2004.
- Fisher, A.** 2004. *Introduction to Air Quality Assessments: Instructional Seminar*. Sir Wilfred Grenfell College, Memorial University of Newfoundland. Corner Brook, NL. February 18, 2004.
- B. Kucewicz and **A. Fisher**. 2004. *Modelling Approach for Designing an Air Quality Monitoring Network for the Lakeland Industry and Community Association (LICA) Regional Airshed in Alberta*. Air & Waste Management Association, Conference on Air Quality Modelling. Toronto, ON. May 17 – 19, 2004.
- Warkentin, I., S. Roberts, **A. Fisher**, and S. Flemming. 2004. *Nest Site Characteristics of Northern Waterthrush Breeding in Western Newfoundland*. Canadian Journal of Field Ornithology, 75 (1): 79-88.
- Warkentin, I., **A. Fisher**, S. Flemming, and S. Roberts. 2003. *Response to Clear-cut Logging by Northern Waterthrush in Western Newfoundland*. Canadian Journal of Forest Research, 33: 755-762.
- Fisher, A.**, M. Parsons, S. Roberts, F. Khan, and T. Husain. 2003. *Long-term SO<sub>2</sub> Dispersion Over a Coastal Region*. Journal of Environmental Technology, 42.
- Fisher, A.**, S. Flemming, S. Roberts, and I. Warkentin. 2001. *Habitat Quality, Foraging Behavior, and Nesting of the Northern Waterthrush in Western Newfoundland*. American Ornithologist's Union Annual Meeting. Seattle, WA.

### References:

Available upon Request

